Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

19 August, 2003

Bruce Lewis
Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento, CA 95833

RE: Aerojet RI/FS
Work Order: P308004

Enclosed are the results of analyses for samples received by the laboratory on 07/29/03 17:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari

Angelee Cari
Project Manager

CA ELAP Certificate #2374

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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| 35D-SB26-20 | P308004-01 | Soil | 07/28/03 16:15 | 07/29/03 17:05 |
| 35D-SB26-25 | P308004-02 | Soil | 07/28/03 16:42 | 07/29/03 17:05 |
| 37D-SB01-2.5 | P308004-03 | Soil | 07/29/03 10:20 | 07/29/03 17:05 |
| 37D-SB01-6 | P308004-04 | Soil | 07/29/03 10:39 | 07/29/03 17:05 |
| 37D-SB01-10 | P308004-05 | Soil | 07/29/03 10:46 | 07/29/03 17:05 |
| 37D-SB01-15E | P308004-06 | Water | 07/29/03 11:00 | 07/29/03 17:05 |
| 37D-SB01-15 | P308004-07 | Soil | 07/29/03 11:11 | 07/29/03 17:05 |
| 37D-SB01-20 | P308004-08 | Soil | 07/29/03 11:32 | 07/29/03 17:05 |
| 37D-SB01-25 | P308004-09 | Soil | 07/29/03 11:56 | 07/29/03 17:05 |
| 37D-SB01-30 | P308004-10 | Soil | 07/29/03 12:17 | 07/29/03 17:05 |
| 37D-SB01-30D | P308004-11 | Soil | 07/29/03 12:17 | 07/29/03 17:05 |
| 37D-SB01-35 | P308004-12 | Soil | 07/29/03 12:40 | 07/29/03 17:05 |
| 37D-SB01-40 | P308004-13 | Soil | 07/29/03 13:12 | 07/29/03 17:05 |

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| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Total Petroleum Hydrocarbons as Diesel & others by EPA 8015B
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-2.5 (P308004-03) Soil Sampled: 07/29/03 10:20 Received: 07/29/03 17:05** | | | | | | | | | | |
| **Diesel Range Organics (C10-C28)** | **24** | | 5.0 | mg/kg | 1 | 3080068 | 08/05/03 | 08/07/03 | EPA 8015B-SVOA | |
| *Surrogate: Octacosane* | | *174 %* | *52-133* | | | " | " | " | " | *S-02* |
| **37D-SB01-6 (P308004-04) Soil Sampled: 07/29/03 10:39 Received: 07/29/03 17:05** | | | | | | | | | | |
| **Diesel Range Organics (C10-C28)** | **6.2** | | 5.0 | mg/kg | 1 | 3080068 | 08/05/03 | 08/07/03 | EPA 8015B-SVOA | |
| *Surrogate: Octacosane* | | *120 %* | *52-133* | | | " | " | " | " | |
| **37D-SB01-10 (P308004-05) Soil Sampled: 07/29/03 10:46 Received: 07/29/03 17:05** | | | | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | | 5.0 | mg/kg | 1 | 3080068 | 08/05/03 | 08/07/03 | EPA 8015B-SVOA | |
| *Surrogate: Octacosane* | | *97 %* | *52-133* | | | " | " | " | " | |
| **37D-SB01-15E (P308004-06) Water Sampled: 07/29/03 11:00 Received: 07/29/03 17:05** | | | | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | | 0.050 | mg/l | 1 | 3080053 | 08/05/03 | 08/07/03 | EPA 8015B-SVOA | |
| *Surrogate: Octacosane* | | *108 %* | *54-141* | | | " | " | " | " | |
| **37D-SB01-15 (P308004-07) Soil Sampled: 07/29/03 11:11 Received: 07/29/03 17:05** | | | | | | | | | | |
| **Diesel Range Organics (C10-C28)** | **5.7** | | 5.0 | mg/kg | 1 | 3080068 | 08/05/03 | 08/07/03 | EPA 8015B-SVOA | |
| *Surrogate: Octacosane* | | *119 %* | *52-133* | | | " | " | " | " | |
| **37D-SB01-20 (P308004-08) Soil Sampled: 07/29/03 11:32 Received: 07/29/03 17:05** | | | | | | | | | | |
| **Diesel Range Organics (C10-C28)** | **18** | | 5.0 | mg/kg | 1 | 3080068 | 08/05/03 | 08/07/03 | EPA 8015B-SVOA | |
| *Surrogate: Octacosane* | | *156 %* | *52-133* | | | " | " | " | " | *S-02* |
| **37D-SB01-25 (P308004-09) Soil Sampled: 07/29/03 11:56 Received: 07/29/03 17:05** | | | | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | | 5.0 | mg/kg | 1 | 3080068 | 08/05/03 | 08/07/03 | EPA 8015B-SVOA | |
| *Surrogate: Octacosane* | | *97 %* | *52-133* | | | " | " | " | " | |

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| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

## Total Petroleum Hydrocarbons as Diesel & others by EPA 8015B
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-30 (P308004-10) Soil** | **Sampled: 07/29/03 12:17** | | **Received: 07/29/03 17:05** | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | | 5.0 | mg/kg | 1 | 3080068 | 08/05/03 | 08/07/03 | EPA 8015B-SVOA | |
| *Surrogate: Octacosane* | | *92 %* | *52-133* | | | " | " | " | " | |
| **37D-SB01-30D (P308004-11) Soil** | **Sampled: 07/29/03 12:17** | | **Received: 07/29/03 17:05** | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | | 5.0 | mg/kg | 1 | 3080068 | 08/05/03 | 08/07/03 | EPA 8015B-SVOA | |
| *Surrogate: Octacosane* | | *100 %* | *52-133* | | | " | " | " | " | |
| **37D-SB01-35 (P308004-12) Soil** | **Sampled: 07/29/03 12:40** | | **Received: 07/29/03 17:05** | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | | 5.0 | mg/kg | 1 | 3080068 | 08/05/03 | 08/07/03 | EPA 8015B-SVOA | |
| *Surrogate: Octacosane* | | *102 %* | *52-133* | | | " | " | " | " | |
| **37D-SB01-40 (P308004-13) Soil** | **Sampled: 07/29/03 13:12** | | **Received: 07/29/03 17:05** | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | | 5.0 | mg/kg | 1 | 3080068 | 08/05/03 | 08/07/03 | EPA 8015B-SVOA | |
| *Surrogate: Octacosane* | | *102 %* | *52-133* | | | " | " | " | " | |

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| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Tentatively Identified Compounds by GC/MS
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **35D-SB26-20 (P308004-01) Soil** | **Sampled: 07/28/03 16:15** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 300 | ug/kg | 1 | 3080047 | 08/05/03 | 08/13/03 | EPA 8270C | |
| **35D-SB26-25 (P308004-02) Soil** | **Sampled: 07/28/03 16:42** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 300 | ug/kg | 1 | 3080047 | 08/05/03 | 08/13/03 | EPA 8270C | |
| **37D-SB01-6 (P308004-04) Soil** | **Sampled: 07/29/03 10:39** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 300 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| **37D-SB01-10 (P308004-05) Soil** | **Sampled: 07/29/03 10:46** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 300 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| **37D-SB01-15E (P308004-06) Water** | **Sampled: 07/29/03 11:00** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 10 | ug/l | 1 | 3080056 | 08/05/03 | 08/13/03 | EPA 8270C | |
| **37D-SB01-15 (P308004-07) Soil** | **Sampled: 07/29/03 11:11** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 300 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| **37D-SB01-20 (P308004-08) Soil** | **Sampled: 07/29/03 11:32** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 300 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| **37D-SB01-25 (P308004-09) Soil** | **Sampled: 07/29/03 11:56** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 300 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| **37D-SB01-30 (P308004-10) Soil** | **Sampled: 07/29/03 12:17** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 300 | ug/kg | 1 | 3080047 | 08/05/03 | 08/13/03 | EPA 8270C | |

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| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Tentatively Identified Compounds by GC/MS
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-30D (P308004-11) Soil** | **Sampled: 07/29/03 12:17** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 300 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| **37D-SB01-35 (P308004-12) Soil** | **Sampled: 07/29/03 12:40** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 300 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| **37D-SB01-40 (P308004-13) Soil** | **Sampled: 07/29/03 13:12** | | **Received: 07/29/03 17:05** | | | | | | | |
| No TICs found | ND | | 300 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |

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| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **35D-SB26-20 (P308004-01) Soil** | **Sampled: 07/28/03 16:15** | | **Received: 07/29/03 17:05** | | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/13/03 | EPA 8270C | |
| Acenaphthylene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Anthracene | ND | 14 | 330 | " | " | " | " | " | " | |
| Azobenzene | ND | 20 | 330 | " | " | " | " | " | " | |
| Benzidine | ND | 1700 | 1700 | " | " | " | " | " | " | |
| Benzoic acid | ND | 2.7 | 1700 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 10 | 330 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 11 | 660 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | " | " | " | " | " | |
| **Bis(2-ethylhexyl)phthalate** | **38** | 9.3 | 330 | " | " | " | " | " | " | J |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 58 | 660 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Chrysene | ND | 11 | 330 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 9.6 | 330 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | " | " | " | " | " | " | |

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| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **35D-SB26-20 (P308004-01) Soil** | **Sampled: 07/28/03 16:15** | | **Received: 07/29/03 17:05** | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/13/03 | EPA 8270C | |
| Fluoranthene | ND | 11 | 330 | " | " | " | " | " | " | |
| Fluorene | ND | 7.9 | 330 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 17 | 330 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 17 | 330 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | " | " | " | " | " | |
| Isophorone | ND | 14 | 330 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 11 | 330 | " | " | " | " | " | " | |
| Naphthalene | ND | 13 | 330 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 17 | 1700 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 18 | 1700 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 22 | 1700 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 23 | 1700 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 12 | 1700 | " | " | " | " | " | " | |
| Phenanthrene | ND | 14 | 330 | " | " | " | " | " | " | |
| Phenol | ND | 12 | 330 | " | " | " | " | " | " | |
| Pyrene | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *70 %* | *11-120* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *78 %* | *16-130* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *82 %* | *16-126* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *84 %* | *28-134* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *89 %* | *51-144* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *108 %* | *64-119* | | | " | " | " | " | |

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| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **35D-SB26-25 (P308004-02) Soil** | **Sampled: 07/28/03 16:42** | | **Received: 07/29/03 17:05** | | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/13/03 | EPA 8270C | |
| Acenaphthylene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Anthracene | ND | 14 | 330 | " | " | " | " | " | " | |
| Azobenzene | ND | 20 | 330 | " | " | " | " | " | " | |
| Benzidine | ND | 1700 | 1700 | " | " | " | " | " | " | |
| Benzoic acid | ND | 2.7 | 1700 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 10 | 330 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 11 | 660 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | " | " | " | " | " | |
| Bis(2-ethylhexyl)phthalate | ND | 9.3 | 330 | " | " | " | " | " | " | |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 58 | 660 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Chrysene | ND | 11 | 330 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 9.6 | 330 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | " | " | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
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|---|---|---|---|
| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **35D-SB26-25 (P308004-02) Soil** | **Sampled: 07/28/03 16:42** | | **Received: 07/29/03 17:05** | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/13/03 | EPA 8270C | |
| Fluoranthene | ND | 11 | 330 | " | " | " | " | " | " | |
| Fluorene | ND | 7.9 | 330 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 17 | 330 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 17 | 330 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | " | " | " | " | " | |
| Isophorone | ND | 14 | 330 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 11 | 330 | " | " | " | " | " | " | |
| Naphthalene | ND | 13 | 330 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 17 | 1700 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 18 | 1700 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 22 | 1700 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 23 | 1700 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 12 | 1700 | " | " | " | " | " | " | |
| Phenanthrene | ND | 14 | 330 | " | " | " | " | " | " | |
| Phenol | ND | 12 | 330 | " | " | " | " | " | " | |
| Pyrene | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *70 %* | *11-120* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *79 %* | *16-130* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *84 %* | *16-126* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *82 %* | *28-134* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *84 %* | *51-144* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *108 %* | *64-119* | | | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-6 (P308004-04) Soil Sampled: 07/29/03 10:39 Received: 07/29/03 17:05** | | | | | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Acenaphthylene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Anthracene | ND | 14 | 330 | " | " | " | " | " | " | |
| Azobenzene | ND | 20 | 330 | " | " | " | " | " | " | |
| Benzidine | ND | 1700 | 1700 | " | " | " | " | " | " | |
| Benzoic acid | ND | 2.7 | 1700 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 10 | 330 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 11 | 660 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | " | " | " | " | " | |
| Bis(2-ethylhexyl)phthalate | ND | 9.3 | 330 | " | " | " | " | " | " | |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 58 | 660 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Chrysene | ND | 11 | 330 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 9.6 | 330 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | " | " | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

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| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-6 (P308004-04) Soil Sampled: 07/29/03 10:39 Received: 07/29/03 17:05** | | | | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Fluoranthene | ND | 11 | 330 | " | " | " | " | " | " | |
| Fluorene | ND | 7.9 | 330 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 17 | 330 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 17 | 330 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | " | " | " | " | " | |
| Isophorone | ND | 14 | 330 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 11 | 330 | " | " | " | " | " | " | |
| Naphthalene | ND | 13 | 330 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 17 | 1700 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 18 | 1700 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 22 | 1700 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 23 | 1700 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 12 | 1700 | " | " | " | " | " | " | |
| Phenanthrene | ND | 14 | 330 | " | " | " | " | " | " | |
| Phenol | ND | 12 | 330 | " | " | " | " | " | " | |
| Pyrene | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *64 %* | *11-120* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *73 %* | *16-130* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *74 %* | *16-126* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *76 %* | *28-134* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *83 %* | *51-144* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *108 %* | *64-119* | | | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-10 (P308004-05) Soil** | **Sampled: 07/29/03 10:46** | **Received: 07/29/03 17:05** | | | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Acenaphthylene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Anthracene | ND | 14 | 330 | " | " | " | " | " | " | |
| Azobenzene | ND | 20 | 330 | " | " | " | " | " | " | |
| Benzidine | ND | 1700 | 1700 | " | " | " | " | " | " | |
| Benzoic acid | ND | 2.7 | 1700 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 10 | 330 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 11 | 660 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | " | " | " | " | " | |
| Bis(2-ethylhexyl)phthalate | ND | 9.3 | 330 | " | " | " | " | " | " | |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 58 | 660 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Chrysene | ND | 11 | 330 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 9.6 | 330 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | " | " | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
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|---|---|---|---|
| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-10 (P308004-05) Soil** | **Sampled: 07/29/03 10:46** | | **Received: 07/29/03 17:05** | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Fluoranthene | ND | 11 | 330 | " | " | " | " | " | " | |
| Fluorene | ND | 7.9 | 330 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 17 | 330 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 17 | 330 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | " | " | " | " | " | |
| Isophorone | ND | 14 | 330 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 11 | 330 | " | " | " | " | " | " | |
| Naphthalene | ND | 13 | 330 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 17 | 1700 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 18 | 1700 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 22 | 1700 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 23 | 1700 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 12 | 1700 | " | " | " | " | " | " | |
| Phenanthrene | ND | 14 | 330 | " | " | " | " | " | " | |
| Phenol | ND | 12 | 330 | " | " | " | " | " | " | |
| Pyrene | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *65 %* | *11-120* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *71 %* | *16-130* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *75 %* | *16-126* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *77 %* | *28-134* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *76 %* | *51-144* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *99 %* | *64-119* | | | " | " | " | " | |

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FAX (707) 792-0342
www.sequoialabs.com

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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-15E (P308004-06) Water** | **Sampled: 07/29/03 11:00** | | **Received: 07/29/03 17:05** | | | | | | | |
| Acenaphthene | ND | 1.2 | 10 | ug/l | 1 | 3080056 | 08/05/03 | 08/13/03 | EPA 8270C | |
| Acenaphthylene | ND | 1.4 | 10 | " | " | " | " | " | " | |
| Anthracene | ND | 0.60 | 10 | " | " | " | " | " | " | |
| Azobenzene | ND | 0.63 | 20 | " | " | " | " | " | " | |
| Benzidine | ND | 3.2 | 50 | " | " | " | " | " | " | |
| Benzoic acid | ND | 3.9 | 50 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.44 | 10 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 1.1 | 10 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 0.64 | 10 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.87 | 10 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 3.9 | 20 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 1.1 | 10 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 1.5 | 10 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 1.5 | 10 | " | " | " | " | " | " | |
| **Bis(2-ethylhexyl)phthalate** | **3.8** | 2.8 | 10 | " | " | " | " | " | " | J |
| 4-Bromophenyl phenyl ether | ND | 0.70 | 10 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 2.7 | 10 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 0.55 | 20 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 2.3 | 20 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 1.4 | 10 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 0.31 | 10 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 0.97 | 10 | " | " | " | " | " | " | |
| Chrysene | ND | 0.45 | 10 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.55 | 10 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 1.1 | 10 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 1.1 | 10 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 1.8 | 10 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 1.8 | 10 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 1.8 | 10 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 2.9 | 20 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 0.47 | 10 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 0.42 | 10 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 1.4 | 10 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 0.56 | 10 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 3.4 | 50 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 2.3 | 50 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 0.82 | 10 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 0.76 | 10 | " | " | " | " | " | " | |

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Petaluma, CA 94954
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FAX (707) 792-0342
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|---|---|---|---|
| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-15E (P308004-06) Water** | **Sampled: 07/29/03 11:00** | | **Received: 07/29/03 17:05** | | | | | | | |
| Di-n-octyl phthalate | ND | 0.81 | 10 | ug/l | 1 | 3080056 | 08/05/03 | 08/13/03 | EPA 8270C | |
| Fluoranthene | ND | 0.44 | 10 | " | " | " | " | " | " | |
| Fluorene | ND | 1.0 | 10 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 0.79 | 10 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 1.5 | 10 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 0.31 | 10 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 1.7 | 10 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.61 | 10 | " | " | " | " | " | " | |
| Isophorone | ND | 0.71 | 10 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 1.4 | 10 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 3.4 | 10 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 3.0 | 10 | " | " | " | " | " | " | |
| Naphthalene | ND | 1.6 | 10 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 0.69 | 50 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 0.54 | 50 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 0.61 | 50 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 1.3 | 10 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 0.42 | 10 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 0.51 | 50 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 1.4 | 20 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 3.9 | 10 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 0.58 | 10 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 3.1 | 50 | " | " | " | " | " | " | |
| Phenanthrene | ND | 0.56 | 10 | " | " | " | " | " | " | |
| Phenol | ND | 0.48 | 10 | " | " | " | " | " | " | |
| Pyrene | ND | 0.28 | 10 | " | " | " | " | " | " | |
| Pyridine | ND | 3.8 | 10 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 1.7 | 10 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 0.61 | 10 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 0.31 | 10 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *63 %* | *15-103* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *81 %* | *18-115* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *95 %* | *39-103* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *98 %* | *40-124* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *104 %* | *11-142* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *120 %* | *56-139* | | | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-15 (P308004-07) Soil** | **Sampled: 07/29/03 11:11** | | **Received: 07/29/03 17:05** | | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Acenaphthylene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Anthracene | ND | 14 | 330 | " | " | " | " | " | " | |
| Azobenzene | ND | 20 | 330 | " | " | " | " | " | " | |
| Benzidine | ND | 1700 | 1700 | " | " | " | " | " | " | |
| Benzoic acid | ND | 2.7 | 1700 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 10 | 330 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 11 | 660 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | " | " | " | " | " | |
| Bis(2-ethylhexyl)phthalate | ND | 9.3 | 330 | " | " | " | " | " | " | |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 58 | 660 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Chrysene | ND | 11 | 330 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 9.6 | 330 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | " | " | " | " | " | " | |

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Petaluma, CA 94954
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| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-15 (P308004-07) Soil** | **Sampled: 07/29/03 11:11** | | **Received: 07/29/03 17:05** | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Fluoranthene | ND | 11 | 330 | " | " | " | " | " | " | |
| Fluorene | ND | 7.9 | 330 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 17 | 330 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 17 | 330 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | " | " | " | " | " | |
| Isophorone | ND | 14 | 330 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 11 | 330 | " | " | " | " | " | " | |
| Naphthalene | ND | 13 | 330 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 17 | 1700 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 18 | 1700 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 22 | 1700 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 23 | 1700 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 12 | 1700 | " | " | " | " | " | " | |
| Phenanthrene | ND | 14 | 330 | " | " | " | " | " | " | |
| Phenol | ND | 12 | 330 | " | " | " | " | " | " | |
| Pyrene | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *64 %* | *11-120* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *73 %* | *16-130* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *77 %* | *16-126* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *81 %* | *28-134* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *76 %* | *51-144* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *103 %* | *64-119* | | | " | " | " | " | |

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Petaluma, CA 94954
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FAX (707) 792-0342
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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-20 (P308004-08) Soil** | **Sampled: 07/29/03 11:32** | | **Received: 07/29/03 17:05** | | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Acenaphthylene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Anthracene | ND | 14 | 330 | " | " | " | " | " | " | |
| Azobenzene | ND | 20 | 330 | " | " | " | " | " | " | |
| Benzidine | ND | 1700 | 1700 | " | " | " | " | " | " | |
| Benzoic acid | ND | 2.7 | 1700 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 10 | 330 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 11 | 660 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | " | " | " | " | " | |
| Bis(2-ethylhexyl)phthalate | ND | 9.3 | 330 | " | " | " | " | " | " | |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 58 | 660 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Chrysene | ND | 11 | 330 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 9.6 | 330 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | " | " | " | " | " | " | |

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|---|---|---|---|
| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-20 (P308004-08) Soil** | **Sampled: 07/29/03 11:32** | | **Received: 07/29/03 17:05** | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Fluoranthene | ND | 11 | 330 | " | " | " | " | " | " | |
| Fluorene | ND | 7.9 | 330 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 17 | 330 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 17 | 330 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | " | " | " | " | " | |
| Isophorone | ND | 14 | 330 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 11 | 330 | " | " | " | " | " | " | |
| Naphthalene | ND | 13 | 330 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 17 | 1700 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 18 | 1700 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 22 | 1700 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 23 | 1700 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 12 | 1700 | " | " | " | " | " | " | |
| Phenanthrene | ND | 14 | 330 | " | " | " | " | " | " | |
| Phenol | ND | 12 | 330 | " | " | " | " | " | " | |
| Pyrene | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *69 %* | *11-120* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *78 %* | *16-130* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *84 %* | *16-126* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *87 %* | *28-134* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *84 %* | *51-144* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *108 %* | *64-119* | | | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-25 (P308004-09) Soil** | **Sampled: 07/29/03 11:56** | | **Received: 07/29/03 17:05** | | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Acenaphthylene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Anthracene | ND | 14 | 330 | " | " | " | " | " | " | |
| Azobenzene | ND | 20 | 330 | " | " | " | " | " | " | |
| Benzidine | ND | 1700 | 1700 | " | " | " | " | " | " | |
| Benzoic acid | ND | 2.7 | 1700 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 10 | 330 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 11 | 660 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | " | " | " | " | " | |
| Bis(2-ethylhexyl)phthalate | ND | 9.3 | 330 | " | " | " | " | " | " | |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 58 | 660 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Chrysene | ND | 11 | 330 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 9.6 | 330 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | " | " | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
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|---|---|---|---|
| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-25 (P308004-09) Soil** | **Sampled: 07/29/03 11:56** | | **Received: 07/29/03 17:05** | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Fluoranthene | ND | 11 | 330 | " | " | " | " | " | " | |
| Fluorene | ND | 7.9 | 330 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 17 | 330 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 17 | 330 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | " | " | " | " | " | |
| Isophorone | ND | 14 | 330 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 11 | 330 | " | " | " | " | " | " | |
| Naphthalene | ND | 13 | 330 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 17 | 1700 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 18 | 1700 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 22 | 1700 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 23 | 1700 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 12 | 1700 | " | " | " | " | " | " | |
| Phenanthrene | ND | 14 | 330 | " | " | " | " | " | " | |
| Phenol | ND | 12 | 330 | " | " | " | " | " | " | |
| Pyrene | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *66 %* | *11-120* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *74 %* | *16-130* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *74 %* | *16-126* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *65 %* | *28-134* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *79 %* | *51-144* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *103 %* | *64-119* | | | " | " | " | " | |

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Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-30 (P308004-10) Soil** | **Sampled: 07/29/03 12:17** | | **Received: 07/29/03 17:05** | | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/13/03 | EPA 8270C | |
| Acenaphthylene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Anthracene | ND | 14 | 330 | " | " | " | " | " | " | |
| Azobenzene | ND | 20 | 330 | " | " | " | " | " | " | |
| Benzidine | ND | 1700 | 1700 | " | " | " | " | " | " | |
| Benzoic acid | ND | 2.7 | 1700 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 10 | 330 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 11 | 660 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | " | " | " | " | " | |
| Bis(2-ethylhexyl)phthalate | ND | 9.3 | 330 | " | " | " | " | " | " | |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 58 | 660 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Chrysene | ND | 11 | 330 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 9.6 | 330 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | " | " | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
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|---|---|---|---|
| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-30 (P308004-10) Soil** | **Sampled: 07/29/03 12:17** | | **Received: 07/29/03 17:05** | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/13/03 | EPA 8270C | |
| Fluoranthene | ND | 11 | 330 | " | " | " | " | " | " | |
| Fluorene | ND | 7.9 | 330 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 17 | 330 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 17 | 330 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | " | " | " | " | " | |
| Isophorone | ND | 14 | 330 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 11 | 330 | " | " | " | " | " | " | |
| Naphthalene | ND | 13 | 330 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 17 | 1700 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 18 | 1700 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 22 | 1700 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 23 | 1700 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 12 | 1700 | " | " | " | " | " | " | |
| Phenanthrene | ND | 14 | 330 | " | " | " | " | " | " | |
| Phenol | ND | 12 | 330 | " | " | " | " | " | " | |
| Pyrene | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *67 %* | *11-120* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *75 %* | *16-130* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *78 %* | *16-126* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *76 %* | *28-134* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *82 %* | *51-144* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *103 %* | *64-119* | | | " | " | " | " | |

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|---|---|---|---|
| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-30D (P308004-11) Soil Sampled: 07/29/03 12:17 Received: 07/29/03 17:05** | | | | | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Acenaphthylene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Anthracene | ND | 14 | 330 | " | " | " | " | " | " | |
| Azobenzene | ND | 20 | 330 | " | " | " | " | " | " | |
| Benzidine | ND | 1700 | 1700 | " | " | " | " | " | " | |
| Benzoic acid | ND | 2.7 | 1700 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 10 | 330 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 11 | 660 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | " | " | " | " | " | |
| Bis(2-ethylhexyl)phthalate | ND | 9.3 | 330 | " | " | " | " | " | " | |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 58 | 660 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Chrysene | ND | 11 | 330 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 9.6 | 330 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | " | " | " | " | " | " | |

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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-30D (P308004-11) Soil Sampled: 07/29/03 12:17 Received: 07/29/03 17:05** | | | | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Fluoranthene | ND | 11 | 330 | " | " | " | " | " | " | |
| Fluorene | ND | 7.9 | 330 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 17 | 330 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 17 | 330 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | " | " | " | " | " | |
| Isophorone | ND | 14 | 330 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 11 | 330 | " | " | " | " | " | " | |
| Naphthalene | ND | 13 | 330 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 17 | 1700 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 18 | 1700 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 22 | 1700 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 23 | 1700 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 12 | 1700 | " | " | " | " | " | " | |
| Phenanthrene | ND | 14 | 330 | " | " | " | " | " | " | |
| Phenol | ND | 12 | 330 | " | " | " | " | " | " | |
| Pyrene | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *68 %* | *11-120* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *76 %* | *16-130* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *79 %* | *16-126* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *78 %* | *28-134* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *81 %* | *51-144* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *105 %* | *64-119* | | | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-35 (P308004-12) Soil** | **Sampled: 07/29/03 12:40** | | **Received: 07/29/03 17:05** | | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Acenaphthylene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Anthracene | ND | 14 | 330 | " | " | " | " | " | " | |
| Azobenzene | ND | 20 | 330 | " | " | " | " | " | " | |
| Benzidine | ND | 1700 | 1700 | " | " | " | " | " | " | |
| Benzoic acid | ND | 2.7 | 1700 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 10 | 330 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 11 | 660 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | " | " | " | " | " | |
| Bis(2-ethylhexyl)phthalate | ND | 9.3 | 330 | " | " | " | " | " | " | |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 58 | 660 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Chrysene | ND | 11 | 330 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 9.6 | 330 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | " | " | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

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|---|---|---|---|
| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-35 (P308004-12) Soil** | **Sampled: 07/29/03 12:40** | | **Received: 07/29/03 17:05** | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Fluoranthene | ND | 11 | 330 | " | " | " | " | " | " | |
| Fluorene | ND | 7.9 | 330 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 17 | 330 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 17 | 330 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | " | " | " | " | " | |
| Isophorone | ND | 14 | 330 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 11 | 330 | " | " | " | " | " | " | |
| Naphthalene | ND | 13 | 330 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 17 | 1700 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 18 | 1700 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 22 | 1700 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 23 | 1700 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 12 | 1700 | " | " | " | " | " | " | |
| Phenanthrene | ND | 14 | 330 | " | " | " | " | " | " | |
| Phenol | ND | 12 | 330 | " | " | " | " | " | " | |
| Pyrene | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *64 %* | *11-120* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *73 %* | *16-130* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *74 %* | *16-126* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *69 %* | *28-134* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *76 %* | *51-144* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *104 %* | *64-119* | | | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-40 (P308004-13) Soil** | **Sampled: 07/29/03 13:12** | | **Received: 07/29/03 17:05** | | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Acenaphthylene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Anthracene | ND | 14 | 330 | " | " | " | " | " | " | |
| Azobenzene | ND | 20 | 330 | " | " | " | " | " | " | |
| Benzidine | ND | 1700 | 1700 | " | " | " | " | " | " | |
| Benzoic acid | ND | 2.7 | 1700 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | " | " | " | " | " | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 10 | 330 | " | " | " | " | " | " | |
| Benzyl alcohol | ND | 11 | 660 | " | " | " | " | " | " | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | " | " | " | " | " | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | " | " | " | " | " | |
| Bis(2-ethylhexyl)phthalate | ND | 9.3 | 330 | " | " | " | " | " | " | |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4-Chloroaniline | ND | 58 | 660 | " | " | " | " | " | " | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | " | " | " | " | " | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | " | " | " | " | " | |
| 2-Chlorophenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | " | " | " | " | " | |
| Chrysene | ND | 11 | 330 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | " | " | " | " | " | |
| Dibenzofuran | ND | 9.6 | 330 | " | " | " | " | " | " | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | " | " | " | " | " | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | " | " | " | " | " | |
| Diethyl phthalate | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | " | " | " | " | " | |
| Dimethyl phthalate | ND | 11 | 330 | " | " | " | " | " | " | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | " | " | " | " | " | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | " | " | " | " | " | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | " | " | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

| | | | |
|---|---|---|---|
| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Semivolatile Organic Compounds by EPA Method 8270C
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **37D-SB01-40 (P308004-13) Soil** | **Sampled: 07/29/03 13:12** | | **Received: 07/29/03 17:05** | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | ug/kg | 1 | 3080047 | 08/05/03 | 08/14/03 | EPA 8270C | |
| Fluoranthene | ND | 11 | 330 | " | " | " | " | " | " | |
| Fluorene | ND | 7.9 | 330 | " | " | " | " | " | " | |
| Hexachlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 17 | 330 | " | " | " | " | " | " | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | " | " | " | " | " | |
| Hexachloroethane | ND | 17 | 330 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | " | " | " | " | " | |
| Isophorone | ND | 14 | 330 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | " | " | " | " | " | |
| 2-Methylphenol | ND | 16 | 330 | " | " | " | " | " | " | |
| 4-Methylphenol | ND | 11 | 330 | " | " | " | " | " | " | |
| Naphthalene | ND | 13 | 330 | " | " | " | " | " | " | |
| 2-Nitroaniline | ND | 17 | 1700 | " | " | " | " | " | " | |
| 3-Nitroaniline | ND | 18 | 1700 | " | " | " | " | " | " | |
| 4-Nitroaniline | ND | 22 | 1700 | " | " | " | " | " | " | |
| Nitrobenzene | ND | 16 | 330 | " | " | " | " | " | " | |
| 2-Nitrophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 4-Nitrophenol | ND | 23 | 1700 | " | " | " | " | " | " | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | " | " | " | " | " | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | " | " | " | " | " | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 12 | 1700 | " | " | " | " | " | " | |
| Phenanthrene | ND | 14 | 330 | " | " | " | " | " | " | |
| Phenol | ND | 12 | 330 | " | " | " | " | " | " | |
| Pyrene | ND | 12 | 330 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | " | " | " | " | " | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | " | " | " | " | " | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | " | " | " | " | " | |
| *Surrogate: 2-Fluorophenol* | | *67 %* | *11-120* | | | " | " | " | " | |
| *Surrogate: Phenol-d6* | | *75 %* | *16-130* | | | " | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | | *77 %* | *16-126* | | | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | | *75 %* | *28-134* | | | " | " | " | " | |
| *Surrogate: 2,4,6-Tribromophenol* | | *82 %* | *51-144* | | | " | " | " | " | |
| *Surrogate: Terphenyl-d14* | | *105 %* | *64-119* | | | " | " | " | " | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

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| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Total Petroleum Hydrocarbons as Diesel & others by EPA 8015B - Quality Control
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3080053 - EPA 3510C** | | | | | | | | | | | |
| **Blank (3080053-BLK1)** | | | | | Prepared: 08/05/03 Analyzed: 08/07/03 | | | | | | |
| Diesel Range Organics (C10-C28) | ND | | 0.050 | mg/l | | | | | | | |
| *Surrogate: Octacosane* | *0.0557* | | | *"* | *0.0500* | | *111* | *54-141* | | | |
| **Laboratory Control Sample (3080053-BS1)** | | | | | Prepared: 08/05/03 Analyzed: 08/07/03 | | | | | | |
| Diesel Range Organics (C10-C28) | 0.920 | | 0.050 | mg/l | 1.00 | | 92 | 49-102 | | | |
| *Surrogate: Octacosane* | *0.0569* | | | *"* | *0.0500* | | *114* | *54-141* | | | |
| **Laboratory Control Sample Dup (3080053-BSD1)** | | | | | Prepared: 08/05/03 Analyzed: 08/07/03 | | | | | | |
| Diesel Range Organics (C10-C28) | 0.901 | | 0.050 | mg/l | 1.00 | | 90 | 49-102 | 2 | 20 | |
| *Surrogate: Octacosane* | *0.0569* | | | *"* | *0.0500* | | *114* | *54-141* | | | |
| **Batch 3080068 - CA LUFT - orb shaker** | | | | | | | | | | | |
| **Blank (3080068-BLK1)** | | | | | Prepared: 08/05/03 Analyzed: 08/07/03 | | | | | | |
| Diesel Range Organics (C10-C28) | ND | | 5.0 | mg/kg | | | | | | | |
| *Surrogate: Octacosane* | *1.44* | | | *"* | *1.67* | | *86* | *52-133* | | | |
| **Laboratory Control Sample (3080068-BS1)** | | | | | Prepared: 08/05/03 Analyzed: 08/12/03 | | | | | | |
| Diesel Range Organics (C10-C28) | 30.4 | | 5.0 | mg/kg | 33.3 | | 91 | 62-103 | | | |
| *Surrogate: Octacosane* | *1.77* | | | *"* | *1.67* | | *106* | *52-133* | | | |
| **Matrix Spike (3080068-MS1)** | **Source: P308004-10** | | | | Prepared: 08/05/03 Analyzed: 08/07/03 | | | | | | |
| Diesel Range Organics (C10-C28) | 27.5 | | 5.0 | mg/kg | 33.3 | 1.9 | 77 | 62-103 | | | |
| *Surrogate: Octacosane* | *1.58* | | | *"* | *1.67* | | *95* | *52-133* | | | |
| **Matrix Spike Dup (3080068-MSD1)** | **Source: P308004-10** | | | | Prepared: 08/05/03 Analyzed: 08/07/03 | | | | | | |
| Diesel Range Organics (C10-C28) | 28.2 | | 5.0 | mg/kg | 33.3 | 1.9 | 79 | 62-103 | 3 | 35 | |
| *Surrogate: Octacosane* | *1.68* | | | *"* | *1.67* | | *101* | *52-133* | | | |

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

| | | |
|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Tentatively Identified Compounds by GC/MS - Quality Control
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3080047 - EPA 3550A Sonication** | | | | | | | | | | | |
| **Blank (3080047-BLK1)** | | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| No TICs found | ND | | 300 | ug/kg | | | | | | | |
| **Batch 3080056 - EPA 3520B LiqLiquid** | | | | | | | | | | | |
| **Blank (3080056-BLK1)** | | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| No TICs found | ND | | 10 | ug/l | | | | | | | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

| | | |
|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3080047 - EPA 3550A Sonication** | | | | | | | | | | | |
| **Blank (3080047-BLK1)** | | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| Acenaphthene | ND | 8.7 | 330 | ug/kg | | | | | | | |
| Acenaphthylene | ND | 7.6 | 330 | " | | | | | | | |
| Anthracene | ND | 14 | 330 | " | | | | | | | |
| Azobenzene | ND | 20 | 330 | " | | | | | | | |
| Benzidine | ND | 1700 | 1700 | " | | | | | | | |
| Benzoic acid | ND | 2.7 | 1700 | " | | | | | | | |
| Benzo (a) anthracene | ND | 7.6 | 330 | " | | | | | | | |
| Benzo (b+k) fluoranthene (total) | ND | 13 | 330 | " | | | | | | | |
| Benzo (g,h,i) perylene | ND | 8.8 | 330 | " | | | | | | | |
| Benzo (a) pyrene | ND | 10 | 330 | " | | | | | | | |
| Benzyl alcohol | ND | 11 | 660 | " | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 9.1 | 330 | " | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 15 | 330 | " | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 16 | 330 | " | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 9.3 | 330 | " | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 13 | 330 | " | | | | | | | |
| Butyl benzyl phthalate | ND | 11 | 330 | " | | | | | | | |
| 4-Chloroaniline | ND | 58 | 660 | " | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 11 | 660 | " | | | | | | | |
| 2-Chloronaphthalene | ND | 9.9 | 330 | " | | | | | | | |
| 2-Chlorophenol | ND | 16 | 330 | " | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 13 | 330 | " | | | | | | | |
| Chrysene | ND | 11 | 330 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 18 | 330 | " | | | | | | | |
| Dibenzofuran | ND | 9.6 | 330 | " | | | | | | | |
| Di-n-butyl phthalate | ND | 12 | 330 | " | | | | | | | |
| 1,2-Dichlorobenzene | ND | 16 | 330 | " | | | | | | | |
| 1,3-Dichlorobenzene | ND | 14 | 330 | " | | | | | | | |
| 1,4-Dichlorobenzene | ND | 15 | 330 | " | | | | | | | |
| 3,3´-Dichlorobenzidine | ND | 44 | 660 | " | | | | | | | |
| 2,4-Dichlorophenol | ND | 15 | 330 | " | | | | | | | |
| Diethyl phthalate | ND | 14 | 330 | " | | | | | | | |
| 2,4-Dimethylphenol | ND | 36 | 330 | " | | | | | | | |
| Dimethyl phthalate | ND | 11 | 330 | " | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 17 | 1700 | " | | | | | | | |
| 2,4-Dinitrophenol | ND | 10 | 1700 | " | | | | | | | |
| 2,4-Dinitrotoluene | ND | 20 | 330 | " | | | | | | | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3080047 - EPA 3550A Sonication** | | | | | | | | | | | |
| **Blank (3080047-BLK1)** | | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| 2,6-Dinitrotoluene | ND | 13 | 330 | ug/kg | | | | | | | |
| Di-n-octyl phthalate | ND | 11 | 330 | " | | | | | | | |
| Fluoranthene | ND | 11 | 330 | " | | | | | | | |
| Fluorene | ND | 7.9 | 330 | " | | | | | | | |
| Hexachlorobenzene | ND | 15 | 330 | " | | | | | | | |
| Hexachlorobutadiene | ND | 17 | 330 | " | | | | | | | |
| Hexachlorocyclopentadiene | ND | 10 | 330 | " | | | | | | | |
| Hexachloroethane | ND | 17 | 330 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 11 | 330 | " | | | | | | | |
| Isophorone | ND | 14 | 330 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 10 | 330 | " | | | | | | | |
| 2-Methylphenol | ND | 16 | 330 | " | | | | | | | |
| 4-Methylphenol | ND | 11 | 330 | " | | | | | | | |
| Naphthalene | ND | 13 | 330 | " | | | | | | | |
| 2-Nitroaniline | ND | 17 | 1700 | " | | | | | | | |
| 3-Nitroaniline | ND | 18 | 1700 | " | | | | | | | |
| 4-Nitroaniline | ND | 22 | 1700 | " | | | | | | | |
| Nitrobenzene | ND | 16 | 330 | " | | | | | | | |
| 2-Nitrophenol | ND | 14 | 330 | " | | | | | | | |
| 4-Nitrophenol | ND | 23 | 1700 | " | | | | | | | |
| N-Nitrosodimethylamine | ND | 16 | 330 | " | | | | | | | |
| N-Nitrosodiphenylamine | ND | 17 | 330 | " | | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 15 | 330 | " | | | | | | | |
| Pentachlorophenol | ND | 12 | 1700 | " | | | | | | | |
| Phenanthrene | ND | 14 | 330 | " | | | | | | | |
| Phenol | ND | 12 | 330 | " | | | | | | | |
| Pyrene | ND | 12 | 330 | " | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 15 | 330 | " | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 14 | 330 | " | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 9.4 | 330 | " | | | | | | | |
| *Surrogate: 2-Fluorophenol* | *3160* | | | *"* | *5000* | | *63* | *11-120* | | | |
| *Surrogate: Phenol-d6* | *3490* | | | *"* | *5000* | | *70* | *16-130* | | | |
| *Surrogate: Nitrobenzene-d5* | *2490* | | | *"* | *3330* | | *75* | *16-126* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *2620* | | | *"* | *3330* | | *79* | *28-134* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *3890* | | | *"* | *5000* | | *78* | *51-144* | | | |
| *Surrogate: Terphenyl-d14* | *3540* | | | *"* | *3330* | | *106* | *64-119* | | | |

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1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3080047 - EPA 3550A Sonication** | | | | | | | | | | | |
| **Laboratory Control Sample (3080047-BS1)** | | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| Acenaphthene | 2770 | 8.7 | 330 | ug/kg | 3330 | | 83 | 34-114 | | | |
| 4-Chloro-3-methylphenol | 2910 | 11 | 660 | " | 3330 | | 87 | 24-118 | | | |
| 2-Chlorophenol | 2510 | 16 | 330 | " | 3330 | | 75 | 29-101 | | | |
| 1,4-Dichlorobenzene | 2470 | 15 | 330 | " | 3330 | | 74 | 25-104 | | | |
| 2,4-Dinitrotoluene | 3540 | 20 | 330 | " | 3330 | | 106 | 42-116 | | | |
| 4-Nitrophenol | 3130 | 23 | 1700 | " | 3330 | | 94 | 31-109 | | | |
| N-Nitrosodi-n-propylamine | 2540 | 15 | 330 | " | 3330 | | 76 | 23-117 | | | |
| Pentachlorophenol | 3310 | 12 | 1700 | " | 3330 | | 99 | 34-114 | | | |
| Phenol | 2430 | 12 | 330 | " | 3330 | | 73 | 20-105 | | | |
| Pyrene | 3630 | 12 | 330 | " | 3330 | | 109 | 30-124 | | | |
| 1,2,4-Trichlorobenzene | 2740 | 15 | 330 | " | 3330 | | 82 | 28-112 | | | |
| *Surrogate: 2-Fluorophenol* | *3480* | | | *"* | *5000* | | *70* | *11-120* | | | |
| *Surrogate: Phenol-d6* | *3610* | | | *"* | *5000* | | *72* | *16-130* | | | |
| *Surrogate: Nitrobenzene-d5* | *2710* | | | *"* | *3330* | | *81* | *16-126* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *2740* | | | *"* | *3330* | | *82* | *28-134* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *4950* | | | *"* | *5000* | | *99* | *51-144* | | | |
| *Surrogate: Terphenyl-d14* | *3590* | | | *"* | *3330* | | *108* | *64-119* | | | |
| **Matrix Spike (3080047-MS1)** | **Source: P308004-10** | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| Acenaphthene | 2710 | 8.7 | 330 | ug/kg | 3330 | ND | 81 | 30-110 | | | |
| 4-Chloro-3-methylphenol | 2910 | 11 | 660 | " | 3330 | ND | 87 | 27-109 | | | |
| 2-Chlorophenol | 2540 | 16 | 330 | " | 3330 | ND | 76 | 24-98 | | | |
| 1,4-Dichlorobenzene | 2400 | 15 | 330 | " | 3330 | ND | 72 | 24-89 | | | |
| 2,4-Dinitrotoluene | 3590 | 20 | 330 | " | 3330 | ND | 108 | 35-110 | | | |
| 4-Nitrophenol | 3210 | 23 | 1700 | " | 3330 | ND | 96 | 20-110 | | | |
| N-Nitrosodi-n-propylamine | 2510 | 15 | 330 | " | 3330 | ND | 75 | 23-109 | | | |
| Pentachlorophenol | 3240 | 12 | 1700 | " | 3330 | ND | 97 | 25-123 | | | |
| Phenol | 2430 | 12 | 330 | " | 3330 | ND | 73 | 19-100 | | | |
| Pyrene | 3620 | 12 | 330 | " | 3330 | ND | 109 | 12-131 | | | |
| 1,2,4-Trichlorobenzene | 2630 | 15 | 330 | " | 3330 | ND | 79 | 17-110 | | | |
| *Surrogate: 2-Fluorophenol* | *3470* | | | *"* | *5000* | | *69* | *11-120* | | | |
| *Surrogate: Phenol-d6* | *3620* | | | *"* | *5000* | | *72* | *16-130* | | | |
| *Surrogate: Nitrobenzene-d5* | *2640* | | | *"* | *3330* | | *79* | *16-126* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *2420* | | | *"* | *3330* | | *73* | *28-134* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *4780* | | | *"* | *5000* | | *96* | *51-144* | | | |
| *Surrogate: Terphenyl-d14* | *3580* | | | *"* | *3330* | | *108* | *64-119* | | | |

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FAX (707) 792-0342
www.sequoialabs.com

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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3080047 - EPA 3550A Sonication** | | | | | | | | | | | |
| **Matrix Spike Dup (3080047-MSD1)** | **Source: P308004-10** | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| Acenaphthene | 2870 | 8.7 | 330 | ug/kg | 3330 | ND | 86 | 30-110 | 6 | 26 | |
| 4-Chloro-3-methylphenol | 2990 | 11 | 660 | " | 3330 | ND | 90 | 27-109 | 3 | 21 | |
| 2-Chlorophenol | 2590 | 16 | 330 | " | 3330 | ND | 78 | 24-98 | 2 | 27 | |
| 1,4-Dichlorobenzene | 2470 | 15 | 330 | " | 3330 | ND | 74 | 24-89 | 3 | 25 | |
| 2,4-Dinitrotoluene | 3440 | 20 | 330 | " | 3330 | ND | 103 | 35-110 | 4 | 15 | |
| 4-Nitrophenol | 3030 | 23 | 1700 | " | 3330 | ND | 91 | 20-110 | 6 | 23 | |
| N-Nitrosodi-n-propylamine | 2630 | 15 | 330 | " | 3330 | ND | 79 | 23-109 | 5 | 31 | |
| Pentachlorophenol | 3070 | 12 | 1700 | " | 3330 | ND | 92 | 25-123 | 5 | 43 | |
| Phenol | 2460 | 12 | 330 | " | 3330 | ND | 74 | 19-100 | 1 | 21 | |
| Pyrene | 3430 | 12 | 330 | " | 3330 | ND | 103 | 12-131 | 5 | 26 | |
| 1,2,4-Trichlorobenzene | 2760 | 15 | 330 | " | 3330 | ND | 83 | 17-110 | 5 | 30 | |
| *Surrogate: 2-Fluorophenol* | *3560* | | | *"* | *5000* | | *71* | *11-120* | | | |
| *Surrogate: Phenol-d6* | *3690* | | | *"* | *5000* | | *74* | *16-130* | | | |
| *Surrogate: Nitrobenzene-d5* | *2750* | | | *"* | *3330* | | *83* | *16-126* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *2750* | | | *"* | *3330* | | *83* | *28-134* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *4720* | | | *"* | *5000* | | *94* | *51-144* | | | |
| *Surrogate: Terphenyl-d14* | *3450* | | | *"* | *3330* | | *104* | *64-119* | | | |
| **Batch 3080056 - EPA 3520B LiqLiquid** | | | | | | | | | | | |
| **Blank (3080056-BLK1)** | | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| Acenaphthene | ND | 1.2 | 10 | ug/l | | | | | | | |
| Acenaphthylene | ND | 1.4 | 10 | " | | | | | | | |
| Anthracene | ND | 0.60 | 10 | " | | | | | | | |
| Azobenzene | ND | 0.63 | 20 | " | | | | | | | |
| Benzidine | ND | 3.2 | 50 | " | | | | | | | |
| Benzoic acid | ND | 3.9 | 50 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.44 | 10 | " | | | | | | | |
| Benzo (b+k) fluoranthene (total) | ND | 1.1 | 10 | " | | | | | | | |
| Benzo (g,h,i) perylene | ND | 0.64 | 10 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.87 | 10 | " | | | | | | | |
| Benzyl alcohol | ND | 3.9 | 20 | " | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 1.1 | 10 | " | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 1.5 | 10 | " | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 1.5 | 10 | " | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 2.8 | 10 | " | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 0.70 | 10 | " | | | | | | | |

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Petaluma, CA 94954
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|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3080056 - EPA 3520B LiqLiquid** | | | | | | | | | | | |
| **Blank (3080056-BLK1)** | | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| Butyl benzyl phthalate | ND | 2.7 | 10 | ug/l | | | | | | | |
| 4-Chloroaniline | ND | 0.55 | 20 | " | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 2.3 | 20 | " | | | | | | | |
| 2-Chloronaphthalene | ND | 1.4 | 10 | " | | | | | | | |
| 2-Chlorophenol | ND | 0.31 | 10 | " | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 0.97 | 10 | " | | | | | | | |
| Chrysene | ND | 0.45 | 10 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.55 | 10 | " | | | | | | | |
| Dibenzofuran | ND | 1.1 | 10 | " | | | | | | | |
| Di-n-butyl phthalate | ND | 1.1 | 10 | " | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.8 | 10 | " | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.8 | 10 | " | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.8 | 10 | " | | | | | | | |
| 3,3´-Dichlorobenzidine | ND | 2.9 | 20 | " | | | | | | | |
| 2,4-Dichlorophenol | ND | 0.47 | 10 | " | | | | | | | |
| Diethyl phthalate | ND | 0.42 | 10 | " | | | | | | | |
| 2,4-Dimethylphenol | ND | 1.4 | 10 | " | | | | | | | |
| Dimethyl phthalate | ND | 0.56 | 10 | " | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 3.4 | 50 | " | | | | | | | |
| 2,4-Dinitrophenol | ND | 2.3 | 50 | " | | | | | | | |
| 2,4-Dinitrotoluene | ND | 0.82 | 10 | " | | | | | | | |
| 2,6-Dinitrotoluene | ND | 0.76 | 10 | " | | | | | | | |
| Di-n-octyl phthalate | ND | 0.81 | 10 | " | | | | | | | |
| Fluoranthene | ND | 0.44 | 10 | " | | | | | | | |
| Fluorene | ND | 1.0 | 10 | " | | | | | | | |
| Hexachlorobenzene | ND | 0.79 | 10 | " | | | | | | | |
| Hexachlorobutadiene | ND | 1.5 | 10 | " | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.31 | 10 | " | | | | | | | |
| Hexachloroethane | ND | 1.7 | 10 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.61 | 10 | " | | | | | | | |
| Isophorone | ND | 0.71 | 10 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 1.4 | 10 | " | | | | | | | |
| 2-Methylphenol | ND | 3.4 | 10 | " | | | | | | | |
| 4-Methylphenol | ND | 3.0 | 10 | " | | | | | | | |
| Naphthalene | ND | 1.6 | 10 | " | | | | | | | |
| 2-Nitroaniline | ND | 0.69 | 50 | " | | | | | | | |
| 3-Nitroaniline | ND | 0.54 | 50 | " | | | | | | | |

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| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3080056 - EPA 3520B LiqLiquid** | | | | | | | | | | | |
| **Blank (3080056-BLK1)** | | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| 4-Nitroaniline | ND | 0.61 | 50 | ug/l | | | | | | | |
| Nitrobenzene | ND | 1.3 | 10 | " | | | | | | | |
| 2-Nitrophenol | ND | 0.42 | 10 | " | | | | | | | |
| 4-Nitrophenol | ND | 0.51 | 50 | " | | | | | | | |
| N-Nitrosodimethylamine | ND | 1.4 | 20 | " | | | | | | | |
| N-Nitrosodiphenylamine | ND | 3.9 | 10 | " | | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 0.58 | 10 | " | | | | | | | |
| Pentachlorophenol | ND | 3.1 | 50 | " | | | | | | | |
| Phenanthrene | ND | 0.56 | 10 | " | | | | | | | |
| Phenol | ND | 0.48 | 10 | " | | | | | | | |
| Pyrene | ND | 0.28 | 10 | " | | | | | | | |
| Pyridine | ND | 3.8 | 10 | " | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.7 | 10 | " | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 0.61 | 10 | " | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 0.31 | 10 | " | | | | | | | |
| *Surrogate: 2-Fluorophenol* | *83.4* | | | *"* | *150* | | *56* | *15-103* | | | |
| *Surrogate: Phenol-d6* | *120* | | | *"* | *150* | | *80* | *18-115* | | | |
| *Surrogate: Nitrobenzene-d5* | *95.4* | | | *"* | *100* | | *95* | *39-103* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *94.5* | | | *"* | *100* | | *94* | *40-124* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *152* | | | *"* | *150* | | *101* | *11-142* | | | |
| *Surrogate: Terphenyl-d14* | *122* | | | *"* | *100* | | *122* | *56-139* | | | |
| **Laboratory Control Sample (3080056-BS1)** | | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| Acenaphthene | 105 | 1.2 | 10 | ug/l | 100 | | 105 | 58-120 | | | |
| 4-Chloro-3-methylphenol | 110 | 2.3 | 20 | " | 100 | | 110 | 51-116 | | | |
| 2-Chlorophenol | 90.9 | 0.31 | 10 | " | 100 | | 91 | 28-111 | | | |
| 1,4-Dichlorobenzene | 82.1 | 1.8 | 10 | " | 100 | | 82 | 29-108 | | | |
| 2,4-Dinitrotoluene | 122 | 0.82 | 10 | " | 100 | | 122 | 60-114 | | | Q-LIM |
| 4-Nitrophenol | 101 | 0.51 | 50 | " | 100 | | 101 | 25-148 | | | |
| N-Nitrosodi-n-propylamine | 96.2 | 0.58 | 10 | " | 100 | | 96 | 29-119 | | | |
| Pentachlorophenol | 112 | 3.1 | 50 | " | 100 | | 112 | 40-131 | | | |
| Phenol | 83.2 | 0.48 | 10 | " | 100 | | 83 | 22-117 | | | |
| Pyrene | 120 | 0.28 | 10 | " | 100 | | 120 | 52-127 | | | |
| 1,2,4-Trichlorobenzene | 91.3 | 1.7 | 10 | " | 100 | | 91 | 24-131 | | | |
| *Surrogate: 2-Fluorophenol* | *113* | | | *"* | *150* | | *75* | *15-103* | | | |
| *Surrogate: Phenol-d6* | *124* | | | *"* | *150* | | *83* | *18-115* | | | |
| *Surrogate: Nitrobenzene-d5* | *102* | | | *"* | *100* | | *102* | *39-103* | | | |

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

| | | |
|---|---|---|
| Environmental Resources Management | Project: Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: Bruce Lewis | 08/19/03 16:23 |

# Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
## Sequoia Analytical - Petaluma

| Analyte | Result | MDL | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3080056 - EPA 3520B LiqLiquid** | | | | | | | | | | | |
| **Laboratory Control Sample (3080056-BS1)** | | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| *Surrogate: 2-Fluorobiphenyl* | *103* | | | *ug/l* | *100* | | *103* | *40-124* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *179* | | | *"* | *150* | | *119* | *11-142* | | | |
| *Surrogate: Terphenyl-d14* | *121* | | | *"* | *100* | | *121* | *56-139* | | | |
| **Laboratory Control Sample Dup (3080056-BSD1)** | | | | | Prepared: 08/05/03 Analyzed: 08/13/03 | | | | | | |
| Acenaphthene | 104 | 1.2 | 10 | ug/l | 100 | | 104 | 58-120 | 1 | 27 | |
| 4-Chloro-3-methylphenol | 111 | 2.3 | 20 | " | 100 | | 111 | 51-116 | 0.9 | 30 | |
| 2-Chlorophenol | 92.0 | 0.31 | 10 | " | 100 | | 92 | 28-111 | 1 | 39 | |
| 1,4-Dichlorobenzene | 83.2 | 1.8 | 10 | " | 100 | | 83 | 29-108 | 1 | 41 | |
| 2,4-Dinitrotoluene | 119 | 0.82 | 10 | " | 100 | | 119 | 60-114 | 2 | 22 | Q-LIM |
| 4-Nitrophenol | 96.3 | 0.51 | 50 | " | 100 | | 96 | 25-148 | 5 | 44 | |
| N-Nitrosodi-n-propylamine | 95.7 | 0.58 | 10 | " | 100 | | 96 | 29-119 | 0.5 | 44 | |
| Pentachlorophenol | 109 | 3.1 | 50 | " | 100 | | 109 | 40-131 | 3 | 33 | |
| Phenol | 84.2 | 0.48 | 10 | " | 100 | | 84 | 22-117 | 1 | 33 | |
| Pyrene | 117 | 0.28 | 10 | " | 100 | | 117 | 52-127 | 3 | 25 | |
| 1,2,4-Trichlorobenzene | 94.0 | 1.7 | 10 | " | 100 | | 94 | 24-131 | 3 | 48 | |
| *Surrogate: 2-Fluorophenol* | *116* | | | *"* | *150* | | *77* | *15-103* | | | |
| *Surrogate: Phenol-d6* | *125* | | | *"* | *150* | | *83* | *18-115* | | | |
| *Surrogate: Nitrobenzene-d5* | *103* | | | *"* | *100* | | *103* | *39-103* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *104* | | | *"* | *100* | | *104* | *40-124* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *174* | | | *"* | *150* | | *116* | *11-142* | | | |
| *Surrogate: Terphenyl-d14* | *118* | | | *"* | *100* | | *118* | *56-139* | | | |

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(707) 792-1865
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| | | | |
|---|---|---|---|
| Environmental Resources Management | Project: | Aerojet RI/FS | P308004 |
| 2525 Natomas Park Drive, Suite 350 | Project Number: | N/A | **Reported:** |
| Sacramento CA, 95833 | Project Manager: | Bruce Lewis | 08/19/03 16:23 |

## Notes and Definitions

| | |
|---|---|
| J | Estimated value. |
| Q-LIM | The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose. |
| S-02 | The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |

GENCORP AEROJET

# Chain of Custody Record

№ 1106

| E.T.R. NO: | WORK ORDER NO: |
|---|---|
| SOURCE SITE NO: | AUGER HOLE NO: |

SAMPLERS *(SIGNATURE)* Damian Wincele

| COC SAMPLE ID | FIELD SAMPLE NO. | DEPTH (FT.) | DATE MM/DD/YY | TIME | TYPE OF CONTAINER | # OF SAMPLE CONTAINERS | SOIL TYPE (USCS CODE) | REQUESTED SAMPLE ANALYSES: VOLATILE ORGANICS *EPA 8240* | BNA's *EPA 8270* | METALS *EPA 6010* | PERCHLORATE *EDL-SW-006* | SVOC by 8270 | TPH-D by 8015M | | | | LABORATORY QA/QC | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1106 A | 35D-SB26-20 | 20 | 07/28/03 | 1615 | 2X6" BRASS | 1 DUP | GP | | | | | X | | P308004 | | | 1 | REPORT TICs |
| 1106 B | 35D-SB26-25 | 25 | 07/28/03 | 1642 | ↓ | 1 | ML | | | | | X | | | | | 2 | ↓ |
| 1106 C | 37D-SB01-2.5 | 2.5 | 07/29/03 | 1020 | ↓ | 1 | GM | | | | | X | | | | | 3 | limited sample volume REPORT TICs |
| 1106 D | 37D-SB01-6 | 6 | 07/29/03 | 1039 | 2X6" BRASS | 1 | GM | | | | | X | X | | | | 4 | ↓ ↓ |
| 1106 E | 37D-SB01-10 | 10 | 07/29/03 | 1046 | 2X6" BRASS | 1 | GM | | | | | X | X | | | | 5 | REPORT TICs |
| 1106 F | 37D-SB01-15E | — | 07/29/03 | 1100 | 1L AMBER | 2 | — | | | | | X | X | | | | 6 | |
| 1106 G | 37D-SB01-15 | 15 | 07/29/03 | 1111 | 2X6" BRASS | 1 | GM | | | | | X | X | | | | 7 | |
| 1106 H | 37D-SB01-20 | 20 | 07/29/03 | 1132 | ↓ | 1 | GC | | | | | X | X | | | | 8 | |
| 1106 I | 37D-SB01-25 | 25 | 07/29/03 | 1156 | ↓ | 1 | CL | | | | | X | X | | | | 9 | |
| 1106 J | 37D-SB01-30 | 30 | 07/29/03 | 1217 | ↓ | 1 | SM | | | | | X | X | | | | 10 | |
| 1106 K | 37D-SB01-30D | 30 | 07/29/03 | 1217 | ↓ | 1 | SM | | | | | X | X | | | | 11 | |
| 1106 L | 37D-SB01-35 | 35 | 07/29/03 | 1240 | ↓ | 1 | ML | | | | | X | X | | | | 12 | |
| 1106 M | 37D-SB01-40 | 40 | 07/29/03 | 1312 | ↓ | 1 | ML | | | | | X | X | | | | 13 | |
| 1106 N | | | / / | | | | | | | | | | | | | | | |
| 1106 O | | | / / | | | | | | | | | | | | | | | |
| 1106 P | | | / / | | | | | | | | | | | | | | | |
| 1106 Q | | | / / | | | | | | | | | | | | | | | |

COOLER CUSTODY SEALS INTACT ☐
NOT INTACT ☐
COOLER TEMPERATURE 3.6 °c

**TOTALS**

| RELINQUISHED BY: *(SIGNATURE)* | DATE/TIME | RECEIVED BY: *(SIGNATURE)* | TOTAL NO. OF SAMPLE CONTAINERS: |
|---|---|---|---|
| Damian Wincele | 7/29/03 1427 | Yowell | 14 |
| RELINQUISHED BY: *(SIGNATURE)* Yowell | DATE/TIME 7/29/03 1705 | RECEIVED BY: *(SIGNATURE)* Monica Gregsen / SEG SAC Rad 9R | METHOD OF SHIPMENT: Courier |
| RELINQUISHED BY: *(SIGNATURE)* Monica Gregsen / SEG SAC | DATE/TIME 7/30/03 | RECEIVED BY LABORATORY BY: *(SIGNATURE)* 7-30 1230 7-30-03 1650 | LABORATORY DELIVERED TO: |

COMMENTS:

ORIGINAL – ENVIRONMENTAL OPERATIONS: *WHITE* 2ND COPY – LABORATORY: *YELLOW* 3RD COPY – SAMPLER: *PINK*

7.67.35 v. 4

# SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

**CLIENT NAME:** Aerojet
**REC. BY (PRINT)** CW
**WORKORDER:** P3008004

**DATE Received at Lab:** 7-30-03
**TIME Received at Lab:** 1630
**LOG IN DATE:** 8-1-03

**(Drinking water) for regulatory purposes:** YES/NO
**(Wastewater) for regulatory purposes:** YES/NO

| CIRCLE THE APPROPRIATE RESPONSE | | LAB SAMPLE # | # | CLIENT ID | DESCRIPTION | SAMPLE MATRIX | DATE SAMPLED | CONDITION (ETC.) |
|---|---|---|---|---|---|---|---|---|
| 1. Custody Seal(s) | Present / (Absent)<br>Intact / ~~Broken~~* | | | 37D-JB01-2.5 | MC | S | 7-29-03 | |
| | | | | -6 | ↓ | ↓ | ↓ | |
| 2. Chain-of-Custody | (Present) / Absent* | | | 10 | ↓ | ↓ | ↓ | |
| 3. Traffic Reports or Packing List: | Present / (Absent) | | | 15E | X21CA | W | | |
| | | | | 15 | MC | S | | |
| 4. Airbill: | Airbill / Sticker<br>Present / (Absent) | | | 20 | ↓ | ↓ | ↓ | |
| | | | | 25 | | | | |
| 5. Airbill #: | | | | 30 | | | | |
| 6. Sample Labels: | (Present) / Absent | | | 30D | | | | |
| 7. Sample IDs: | ~~Listed~~ / Not Listed<br>on Chain-of-Custody | | | 35 | | | | |
| | | | | 40 | ↓ | ↓ | ↓ | |
| 8. Sample Condition: | (Intact) / Broken* /<br>Leaking* | | | | | | | |
| 9. Does information on custody reports, traffic reports and sample labels agree? | (Yes) / No* | | | | | | | |
| 10. Sample received within hold time: | (Yes) / No* | | | | | | | |
| 11. Proper Preservatives used: | (Yes) / No* | | | | | | | |
| 12. Temp Rec. at Lab: 3.6 | | | | | | | | |
| (Acceptance range for samples requiring thermal pres.:4+/-2°C) | (Yes) / No* | | | | | | | |

***If Circled, contact Project Manager and attach record of resolution.**